1983

MARK TWAIN NATIONAL WILDLIFE REFUGE (Calhoun District)

GILBERT LAKE DIVISION

ANNUAL NARRATIVE REPORT Calendar Year 1983

U.S. Department of the Interior
Fish and Wildlife Service
NATIONAL WILDLIFE REFUGE SYSTEM

TABLE OF CONTENTS

HIGHLIGHTS

PAGE

1.

	B. CLIF	MTIC	. c c	МD	TТ	IOI	<u>IS</u>					
C. LAND ACQUISITION												
C. Dans referention												
1.	Fee Title			_					Nothing	to	Report	
2.	Easements								Nothing		-	
3.	Other								Nothing		-	
									•		-	
D. PLANNING												
					•		•					
1.	Master Plan								Nothing	to	Report	
2.	Management Plan								Nothing	to	Report	
3.	Public Participation			٠		•			Nothing	to	Report	
4.	Compliance with Environme	enta.	1					•	Nothing		-	
5.	Research and Investigation	on.						•	Nothing	to	Report	
	E. Ai	OMIN:	ויוים ד	חתכ	חדי	M						
	E. Al	JULIA.	<u> </u>	V-11	10	14						
1.	Personnel			_					Nothing	to	Report	
2.	Youth Programs								Nothing		-	
3.	Other								Nothing		-	
4.	Volunteers Program								Nothing		_	
5.	Funding								Nothing		-	
6.	Safety								Nothing		-	
7.	Technical Assistance								Nothing			
8.	Other Items							•.	Nothing	to	Report	
F. HABITAT MANAGEMENT												
	General								Nothing	ta	Panart	
1.	Wetlands	• •		•	•	•	• •	•	Noching	1	respor c	
2.	Forests	• •	• •	•	•	•		•	Nothing	. ro	Report	
3.			• •	•	•	•	• •	•	· · · ·	1	Report	
4.	Croplands	• •	• •	•	•	•	•	•	Nothing	. <u>.</u>	Rouort	
5.	Grasslands								Nothing			
6.	Other Habitats	• •		•	٠							
7.	Grazing	• •	• •	•	•	•	•	•	nounting	1	nepor c	
8.	Haying	• •	• •	•	•	•	•	•	Mothier	, ro	Report	
9.	Pest Control	• •	• •	•	•	•	•	•	South tea	100	Report Report	
10.	rest Control	• •	• •	٠	٠	•	•	•	Mothine	i co	Raport	
11.	Water Rights	• •		٠	•	•	•	•	воентий		repor t	
12.	Wilderness and Special A WPA Easement Monitoring	u. eus	٠	•	•	•	•	٠.	Nothing	. r	Repart	
13.	WPA Easement Monitoring		• •	•	•	•	•	•	MOCHTIM	LU	report	
									, ·			

以各樣的一樣的一樣的一樣的一樣的一樣的一樣的一樣,這樣就是一個人的一樣的一樣的一樣,我們們也們們也可以不可以不可以不可以的一樣的一個人的一個人的一個人的一樣的一樣的一樣的一樣的一樣的一樣的一樣的一樣的

	G. WILDLIFE	PAGE	
1. 2. 3.	Wildlife Divsersity	4	Report
4.	Marsh and Water Birds		
5. 6.	Raptors		
7.	Other Migratory Birds		Report
8.	Game Mammals		repor e
9.	Marine Mammals		Report
10.	Other Resident Wildlife	Nothing to	_
11.	Fisheries Resources	Nothing to	-
12.	Wildlife Propogation and Stocking	Nothing to	Report
13.	Surplus Animal Disposal	Nothing to	Report
14.	Scientific Collections	Nothing to	Report
15.	Animal Control	Nothing to	Report
16.	Marking and Banding	Nothing to	-
17.	Disease Prevention and Control	Nothing to	Report
ı	u pudite her		
	H. PUBLIC USE		
1.	General	11	
2.	Outdoor Classrooms - Students	Nothing to	Report
3.	Outdoor Classrooms - Teachers		
4.	Interpretive Foot Trails		
5.	Interpretive Exhibits/Demonstrations	Nothing to	Report
7.	Other Interpretius Programs	Nothing to	Report.
8.	Hunting.	Nothing to	Report
9.	Fishing	Nothing to	Report
10.	Trapping	Nothing to	Report
11:.	Wildlife Observation	11	ı
12.	Other Wildlife Oriented Recreation		
13.	Camping		
14.	Picnicking		
15·.	Off-Road Vehicling	Nothing to	Report
16.	Other Non-Wildlife Oriented Recreation		
17.	Law Enforcement	Nothing to	Report
	Cooperating Association	Nothing to	Report
19.	Concessions	Nothing to	Report
,	I. EQUIPMENT AND FACILITIES		
	· · · · · · · · · · · · · · · · · · ·	Models income	Panart
1.	New Construction	. мосилич СС 11	. KGDOLC
2.	Rehabilitation		Report
3.	Equipment Utilization and Replacement	. Nothing to 11	, webore
4.	Communications		Report
5. 6	Energy Conservation	. Nothing to	Report
6. 7.	Other	. Nothing to	Report
7 •	Other,		



1. 2. 3.

A. HIGHLIGHTS

Weather conditions caused many farming changes. (Section F-4)

Cleaned out Gilbert Lake ditch. (Section 1-2)

F. HABITAT MANAGEMENT

2. Wetlands

\$ 18 mg

Gilbert Lake was drained down as low as it could be drained using the silted in water control ditch. This was accomplished by the middle of July. The hot dry weather in August took care of most of the water that was left. By September the only water left was a pool about 10 yds. by 25 yds.

The weather made conditions just right for a fine stand of Chufa Grass in Gilbert Lake. After we were finally able to get water back on it, it received use by waterfowl.

4. Croplands

Two cooperative farmers were scheduled to plant 59 acres of corn, 29 acres of soybeans, 16 acres of buckwheat, 5 acres of millet, and 5 acres of red clover.

Flood conditions changed all of this. Fourty nine acres of corn, 39 acres of soybeans, 5 acres of buckwheat, and 5 acres of red clover were planted. Late planting and a dry growing season caused a low yield from 29 of the soybean acres. These 29 acres of soybeans were aerial seeded to wheat before they were harvested and 10 acres of beans were disked up after harvest and seeded to wheat. The wheat was browsed heavily by the Canada Goose population that uses this area from year to year.

8. Haying

Fourteen acres of alfalfa mixed were moved and baled for hay. Approximately 59 tons of hay were harvested.

The only utilization of this area by wildlife was as a resting area by geese.

12. Wilderness and Special Areas

The Duncan Farm site an area owned by the Illinois Department of Conservation as a part of Pere Marquette State Park but managed by the Fish and Wildlife Service as a part of the Gilbert Lake Division is listed in the National Register of Historic Places as an archeological site.

The management of this area calls for maintaining native grass on

Brush (cottonwoods) encroachment on a farm field after it couldn't be farmed for two years because of flooding.

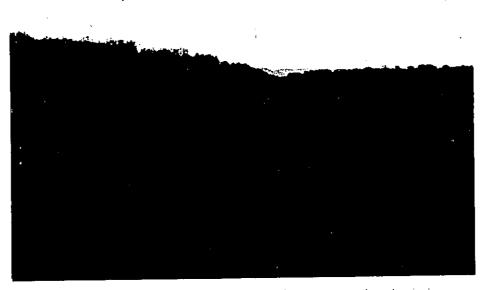


This 1^t_2 to 2 foot of silt which was washered a refuge road by a recent flood, shows why the refuge lakes and ditches are constantly filling in.

3.4.19. - 9/1/33



Gilbert Lake in the process of drying up with the silted in water control ditch showing up on the right. $G.W.P. \quad 9/1/83$



Stand of chufa grass which resulted from the desimina of Gilbert Lake. G.W.P. -9.72.783

أتمعن

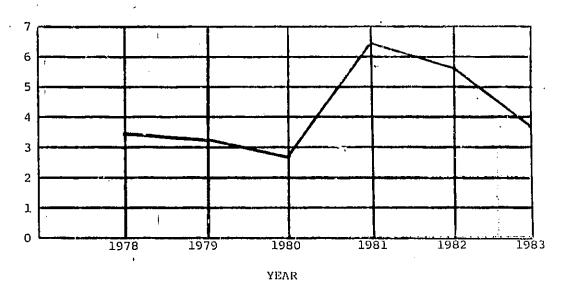
the mounds itself and no plowing of the 28.5 acres surrounding the mounds. The area can be disked up to 6 inches deep. At the present time it is planted to alfalfa and ladino clover.

G. WILDLIFE

2. Endangered and/or Threatened Species

Bald Eagle use dropped 36% in 1983 to 370 use days. A peak of 5 birds occurred in February.

BALD EAGLE USE



3. Waterfowl

Duck use days totalled 274,787, an increase of 34% from 1982. Mallards accounted for 49% of this use. The largest concentration of ducks occurred in November when a peak of 6,665 was reached. Duck production for the year was 110 mallards, 30 blue-winged teal, and 375 wood ducks.

As was common throughout the rest of the refuge, goose use decreased significantly form 1982 on the Gilbert Lake area. Snow/blue goose use days total (14 46,710, down 68% from last year, while Canada goose use days fell to 25,035, down 76% from last year.

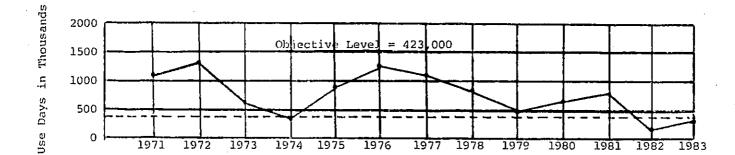
Coot use days totalled 33,020.



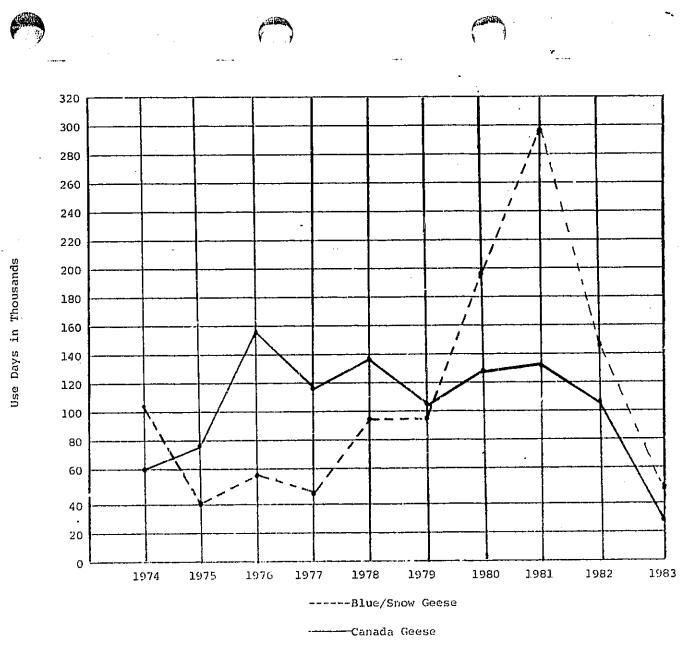
Mallards against a backdrop of bright fall foliage.

G.W.P 12/1/83

ن



Duck Use Days - Gilbert Lake Division



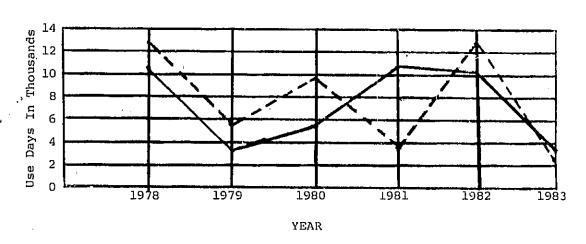
Goose Use Days - Gilbert Lake Division

4. Marsh and Water Birds

Great blue herons, little blue herons, double-crested cormorants, green herons, pied-billed grebes, and common egrets accounted for 3,990 use days this year. The great blue heron was the most numerous species.

5. Shorebirds, Gulls, Terns, and Allied Species

Eight species accounted for 2,760 use days. The pectoral sandpiper, semipalmated sandpiper, and killdeer were found in greater numbers than any other species in this group, they accounted for most of the use days.



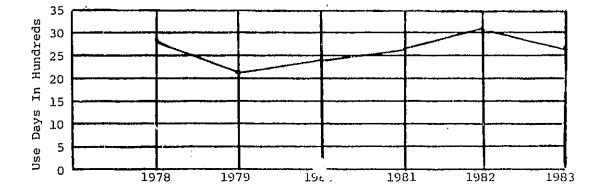
-----Marsh and Water Bird Use Days

----Shorebirds, Gull, Tern, and Allied Species Use Days

6. Raptors

Species from this group, including the red-tailed hawk and marsh hawk, accounted for 2,630 use days. Use by the red-tailed hawk made up 42% of this total and was the most common species found on the area.

RAPTOR USE







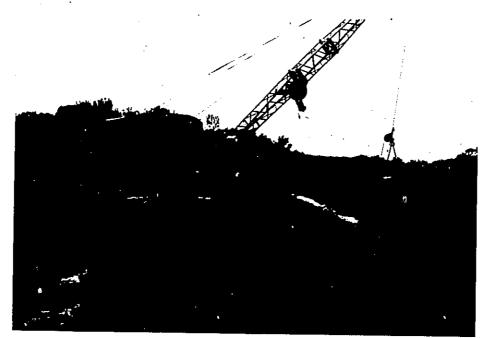
Mud flying during the blasting of Gilbert Lake water control ditch

G.W.P. 9/2/83



Ditch cleanedout by previous blasting activities.

G.W.P. = 9.22/83



Maintenance mechanic Simon operating the refuge dragline, finishing up the ditch cleanout that could not be blasted because of soil moisture conditions.

G.W.P. 10/1/83

8. Game Mammals

The deer population was heavy at times as they came down from Pere Marquette State Park to feed in the Gilbert Lake cornfields. Five to six deer have been seen at times feeding in the refuge corn.

H. PUBLIC USE

1. General

Total public use visits to Gilbert Lake was 1,842 visits a sharp decrease from 1982. This was caused to a large extent by a reduction in the number of visitors who stopped on the overlook, off of state highway 100, to observe geese feeding in the refuge corn and wheat fields.

11. Wildlife Observation

The only public use on Gilbert Lake is wildlife observation either by walking along the refuge maintenance road between the Illinois River and Gilbert Lake or by stopping in a vehicle on the refuge overlook road.

I. EQUIPMENT AND FACILITIES

2. Rehabilitation

An explosives expert was called in to open up 1,000 feet of water control ditch leading from Gilbert Lake to the water control structure. Three thousand feet of ditch were to dry to be blasted so maintenanceman Simon used the refuge dragline to dig it out.

Several acres of brush in Gilbert Lake were cleared using the refuge's dozer.

4. Equipment Utilization and Replacement

A low-boy trailor and tractor was rented to have the refuge dozer and dragline hauled to Gilbert Lake and back.